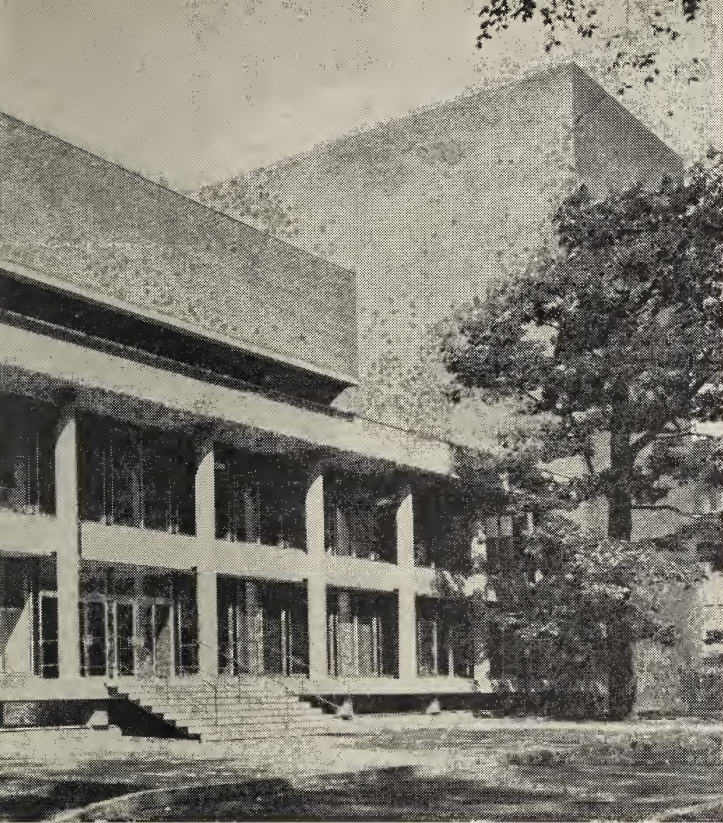




OCTOBER 1962

STAFF **bulletin**

UNIVERSITY OF TORONTO



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OCTOBER EVENTS

2 TUESDAY

Athletics Soccer. Ryerson at Varsity. Back campus. 3 p.m.

3 WEDNESDAY

Athletics Junior Intramural Track Meet. Stadium. 1.30 p.m.

4 THURSDAY

Music Faculty of Music Concert series. Song recital by Teresa Stratas. Concert Hall, Edward Johnson Building. 8.30 p.m. All seats reserved.

6 SATURDAY

Athletics Football. Queen's at Varsity. Stadium. 2 p.m.
Rugger. Queen's at Varsity. Back campus. 11 a.m.

10 WEDNESDAY

Athletics Soccer. McMaster at Varsity. Back campus. 3 p.m.
Intercollegiate tennis tournament. Toronto Tennis Club. Oct. 10, 11, and 12.

12 FRIDAY

Athletics Senior Intramural Track Meet. Stadium. 1.30 p.m.

15 MONDAY

Lecture Inauguration of the Harold Keith Box Memorial Lecture in Faculty of Dentistry. "The Role of Bone in Periodontal Disease". Dr. Harry Sicher, Chicago. Auditorium, Dental Building. 8.15 p.m.

16 TUESDAY

Meeting International Association for Dental Research. "Research Projects in Dental Radiology". Prof. A. G. Richards, University of Michigan. Room 308, Dental Building. 1 p.m.

18 THURSDAY

- Cornerstone Ceremony Faculty of Pharmacy cornerstone will be laid by Dr. Matthew B. Dymond, Minister of Health for Ontario. 3.30 p.m.
- Music Faculty of Music series. The Canadian String Quartet will play Beethoven and Bartok. Concert Hall, Edward Johnson Building. 8.30 p.m.

19 FRIDAY

- Homecoming Homecoming Weekend—Oct. 19, 20, and 21.
- Theatre "The Devil's Advocate". A Hart House Theatre production directed by Robert Gill. Oct. 19–27 inc. 8.30 p.m.

20 SATURDAY

- Football. Western at Varsity. Stadium. 2 p.m.
- Soccer. Western at Varsity. Back campus. 12 o'clock noon.
- Rugger. O.A.C. at Varsity. Back campus. 11 a.m.

22 MONDAY

- Music Organ Recital by Douglas Elliott. Convocation Hall. 5 p.m.
- Lecture St. Michael's College. First in Public Lecture Series on Linguistics. Prof. Samuel E. Martin, University of Washington. 4.10 p.m. (Place to be announced later.)

25 THURSDAY

- Athletics Soccer. Ryerson at Varsity. Back campus. 3 p.m.

26 FRIDAY

- Lecture Department of Ophthalmology—The Walter W. Wright Lecture. "The Healing and Reaction of the Cornea following Transplantation". Dr. A. W. Maumenee, Director of the Wilmer Institute, Johns Hopkins Hospital. Main auditorium, Toronto General Hospital. 4 p.m.

Exhibitions

"Art Treasures of the Royal Ontario Museum"—the second major exhibition honouring the Royal Ontario Museum's Golden Jubilee celebration will show a selection of one hundred art treasures in the Art and Archaeology Division's collection. Exhibition Hall. Oct. 30 to Feb. 28, 1963.

Paintings by John Bennett will be on

display in Alumni Hall, Victoria College, from Oct. 9 to Nov. 3.

"Canada's Early Frontiers: West and North"—a collection of oil paintings, water-colours and prints telling the story of the opening up and development of Canada's north and west. Canadiana Gallery. To the end of October.

HOMEcoming WEEKEND

October 19, 20, and 21 will be Homecoming Weekend on the campus. For staff members and Alumni, the undergraduates will produce a variety show in Varsity Stadium that Friday evening, beginning at 8.30 p.m. Saturday morning the annual float parade will make its way to the front campus about 11 a.m. The Great Hall and Arbor Room will be open for lunch before the 2 p.m. kick-off of the football match with Western Mustangs.

In addition to these all-University events,

many college, faculty, school and year groups are planning their own reunions. One of the most ambitious is the first Alumni-Faculty conference of the School of Social Work, which on Friday evening and Saturday morning will bring nine prominent Alumni back to the campus as discussion leaders in an examination of new approaches to a wide range of community problems.

For further information on Homecoming, please call Alumni House, University local 578.

PHARMACY CORNERSTONE

The Minister of Health for Ontario, Dr. Matthew B. Dymond, will lay the cornerstone of the new Faculty of Pharmacy building on Thursday, Oct. 18, at 3.30 p.m.

The five-storey, \$1,500,000 structure at the corner of Huron and Russell streets is scheduled to be ready for use next fall. In

addition to classroom and teaching laboratory space, it will provide greatly expanded facilities for graduate studies and research—areas Pharmacy has stressed since becoming a Faculty of the University in 1953. At present Pharmacy occupies quarters opened 75 years ago on Gerrard Street East.

UNIVERSITY COLLEGE

THURSDAY AFTERNOON LECTURES

- Nov. 1 "Of Ghostly Fleas and Archangels:
the Pleasures of a Blake Biographer"
Prof. G. E. Bentley
- Nov. 8 "'Performance' in Art"
Prof. G. B. Payzant
- Nov. 15 "Jerusalem Uncovered, 1962"
Prof. J. W. Wevers
- Nov. 22 "The Alphabet in History"
Prof. G. P. Goold
- Nov. 29 "Fact and Fiction in the Old French
Chronicles"
Prof. P. F. Dembowski

At 4.30 p.m., West Hall, University College

NOTES

Administration

PRESIDENT BISSELL was elected president of the National Conference of Canadian Universities and Colleges at its annual meeting at McMaster University in June. Dr. Bissell is now also chairman of the Canadian Universities Foundation.

DR. BISSELL gave a paper on "The Image of America in Canada" at the Canadian Studies Seminar, University of Rochester, in March. Dr. Bissell gave an address to the Victoria College Alumni, Victoria, B.C., on Sept. 5.

Arts and Science

PROF. T. F. McILWRAITH addressed the Toronto Field Naturalists' Club on March 5 on "The Indians of Canada".

PROF. JOHN F. HEARD attended the meeting of the Astronomical Society of the Pacific in Victoria on June 21 and 22, and at that time spent three weeks as guest investigator at the Dominion Astrophysical Observatory.

In September, PROF. HELEN S. HOGG visited Germany and Czechoslovakia, speaking to the Second Colloquium on Variable Stars at Remeis Observatory, Bamberg, on "Numbers and Kinds of Variables in Globular Clusters", and to the staff of the Observatory of the Astronomical Institute of the Academy of Science of Czechoslovakia on "Star Clusters".

PROF. S. VAN DEN BERGH took part in the symposium on Star Clusters held under the auspices of the International Astronomical Union at the Royal Greenwich Observatory on Sept. 4 and 5.

PROF. RUTH NORTHCOTT, president of the Royal Astronomical Society of Canada, presided at the General Assembly of the Society held in Edmonton on May 18-21, visiting a number of Western Centres of the Society en route. On Sept. 1-3 she attended the meeting of the Association of Lunar and Planetary Observers at Sir George Williams

University, Montreal, and on Sept. 17 addressed the Windsor Centre of the Royal Astronomical Society of Canada on "Canadian Astronomy".

PROF. N. P. BADENHUIZEN lectured on "Electron Microscopic Studies on the Growth of the Starch Granule" at the Starch Round Table held in Chestertown, Maryland, Sept. 5-9. He gave an invited lecture to a symposium on Starch Fractions and their Characteristics of the American Chemical Society in Atlantic City, Sept. 9-14. His topic was "Formation and Distribution of Amylose and Amylopectin in the Starch Granule".

PROF. J. C. POLANYI has been awarded the 1962 Marlow Medal for research in physical chemistry of the Faraday Society of Britain.

PROF. R. M. SMITH attended the meetings of the American Oriental Society, and MESSRS. A. H. C. WARD, C. D. C. PRIESTLEY, and W. A. C. SAYWELL the meetings of the Association of Asian Studies in Boston in April.

At the First International Congress of Hispanists, held at Oxford, Sept. 6-11, papers were read by PROF. C. L. STAGG, on "El plan primitivo del *Quijote*" (by proxy), by PROF. J. H. PARKER, on "*La Gitanilla* de Montalván: enigma literario del siglo XVII", and by PROF. K. L. LEVY, on "España y las letras americanas del siglo XVII: tendencias, querencias, pependencias". PROFS. W. MCCREADY and J. GULSOY also attended. At the subsequent Anglo-Catalan Conference, Prof. Gulsoy read a paper on "Catalan Lexicography".

PROF. PARKER was guest lecturer in July at the NDEA Language Institutes at Bradley University, Peoria, Illinois, and at Rosary College, River Forest, Illinois, in commemoration of the Quadricentennial of the birth of Lope de Vega.

PROF. LEVY conducted two courses on Spanish American literature in the summer session of the University of Arizona at Tucson.

PROF. L. ROMEO attended the Northeast Conference on the Teaching of Foreign

Languages in Boston, April 13-14, and also the Ninth International Congress of Linguists at the Massachusetts Institute of Technology and Harvard University, Aug. 27-31. He was visiting associate professor at the 1962 National Defense Education Act Summer Language Institute for Secondary School Teachers at Central Connecticut State College.

PROF. T. A. GOUDGE gave a paper entitled "Speaking about Memory" to the Canadian Philosophical Association at McMaster University on June 14.

PROF. MARCUS LONG attended the National Security Forum of the United States War University at Maxwell Field Air Base, Montgomery, Alabama, as a Canadian representative.

PROF. W. H. DRAY read a paper to the New York University Annual Institute of Philosophy in May entitled "The Historical Explanation of Actions Reconsidered". He took part in a symposium entitled "The Philosophy of History and the Historian" at the annual meetings of the Canadian Historical Association in June.

PROF. E. L. FACKENHEIM read a paper at the annual meetings of the Canadian Philosophical Association entitled "Metaphysics and Historicity: A Defence".

PROF. GEOFFREY PAYZANT spent July and August at Mount Allison University, Sackville, N.B., where he taught courses in English Literature and was director of the Mount Allison Church Music Workshop.

PROF. R. E. AZUMA presented a paper entitled "High Neutron Flux Measurements using Semiconductor Detectors" at the June meeting of the Canadian Association of Physicists.

PROF. J. N. P. HUME was chairman of the Third Conference of the Computing and Data Processing Society of Canada at McGill University in June. He attended the Congress of the International Federation for Information Processing in Munich during August and was chairman of the session on "Artificial perception". His recorded lectures on "FORTRAN" Programming for the IBM 7090" were demonstrated at the SHARE XIX meeting in September at Toronto.

DR. D. G. IVEY was a visiting professor for the summer session at the University of British Columbia.

PROF. K. G. MCNEILL presented a paper entitled "Fast Photoprotons from Medium Weight Nuclei" at the Washington meeting of the American Physical Society.

PROF. J. D. POLL presented a paper at symposium on "Current Problems in the

Chemistry and Physics of Non-Metallic Solids" at Laval University, Sept. 6 and 7, entitled "Theory of the Phonon Branches in the Spectrum of Solid Hydrogen".

PROF. J. D. PRENTICE spent the summer in the Chalk River Laboratories of Atomic Energy of Canada Ltd., and gave a lecture in "Nuclear Physics at the University of Toronto".

PROF. G. D. SCOTT attended the International Congress for Electron Microscopy in Philadelphia, Aug. 29-Sept. 5.

PROF. K. W. H. STEVENS from the University of Nottingham, England, was a visiting professor in the Department of Physics during June and July. He presented a course of lectures on "Selected Topics in Solid State Theory".

PROF. C. HORIE from Tohoku University, Sendai, Japan, arrived in August and will be a visiting professor in theoretical physics for the coming academic year. Prof. Horie will deliver a special series of lectures on his research work in the field of molecular and solid state physics.

PROF. J. VAN KRANENDONK presented a colloquium at the R.C.A. laboratories in Princeton in May, entitled "Mossbauer Effect in Induced Infrared Absorption." He also gave an invited paper at the symposium on "Current Problems in the Chemistry and Physics of Non-Metallic Solids" at Laval University, Sept. 6 and 7, entitled "Properties of Solid Hydrogen and Deuterium".

PROF. A. M. CROOKER of the University of British Columbia was visiting professor in the Department of Physics during the summer, assisting the molecular physics research group.

PROF. H. L. WELSH has been elected as fellow of the Royal Society of London and was formally admitted at the regular meeting of the Society on June 21. Prof. Welsh spoke on "Spectroscopy of Gases at High Pressures" at a symposium on the Physics and Chemistry of High Pressures organized by the Royal Society of Canada and also gave a paper on "Graduate Studies in Physics" at a symposium of the Canadian Association of Physicists at Hamilton, Ont., in June. He gave a paper in London, England, on "Raman Spectroscopy of Compressed Gases" at a symposium on High Pressure organized by the Chemical Society. He also gave a lecture in July on recent work at Toronto in spectroscopic studies of compressed gases at the Centre National de Recherche Scientifique at Bellevue, France.

PROFS. R. M. FARQUHAR, D. YORK, and F.

S. GRANT attended meetings of the American Geophysical Union in Washington in April.

Prof. York gave an invited paper entitled "Geological Time and its Accurate Measurement" to a joint Canadian Association of Physicists—Royal Society of Canada symposium "Dating by Radioactive Isotopes".

PROF. GRANT was chairman of a session at the meetings of the Society of Exploration Geophysicists held in Calgary. Papers were presented at this meeting by PROFS. J. T. WILSON and G. F. WEST.

PROF. H. I. MACDONALD participated in a conference on "Canada and the United States in the World Economy" in Boston, March 16–18; participated in a panel discussion on "Canada and the Common Market" at the Business Paper Editors' Association in Montreal on April 25; addressed the Mount Allison Summer Institute on "Great Britain and the Common Market" at Sackville on Aug. 17; and spoke to the Econoro-Moneco Forum on "The Growth Potential in Exports 1965–1970" at Kingston on Sept. 8.

PROF. KARL F. HELLEINER attended the International Conference on the Climate of the 11th and 16th Centuries held at Aspen, Colorado, June 16–24.

PROF. ABRAHAM AMSEL was visiting professor at the University of California in Berkeley during the summer. He also addressed the graduate colloquium at Stanford University on the topic "Frustrative Non-reward in Behaviour Theory".

PROF. ROBERT JOYNER attended a program on computer research for university staff members sponsored by the Carnegie and Rand Corporations in Santa Monica, California, June 17–June 28.

PROF. GEORGE MANDLER attended the psychology colloquium on May 18 at the University of Michigan on "Explorations in Human Learning". He also attended the University of California conference on verbal learning at Lake Arrowhead, June 12–17, and a colloquium on "An analysis of emotional behaviour" on July 27 at the University of Wisconsin.

PROF. C. R. MYERS attended the La Napoule Conference in France on International Exchange in Psychology in July. A delegate from each of 22 countries attended.

PROF. E. TULVING presented the following papers at the C.P.A. in Hamilton in June: "Experimental Manipulation of Individual Strategies of Memorizing"; "A Correlational Analysis of Variables in Tachistoscopic Word Identification" (co-author); and

"Transfer Effects in Utilization of Positive and Negative Instances in Concept Identification" (co-author).

PROF. R. W. WALTERS was a research associate at Stanford University during the summer.

University College

PROF. P. F. DEMBOWSKI and MR. R. A. TAYLOR attended the Tenth International Congress of Romance Linguistics and Philology at the University of Strasbourg in April. Mr. Taylor read a paper entitled "Les Néologismes chez Nicolas Oresme—traducteur du XIV^e siècle".

PROF. V. E. GRAHAM has been re-elected president of the Alliance Française de Toronto.

Victoria

DR. A. B. B. MOORE attended the General Council of the United Church of Canada in London, Ontario, and delivered a lecture on "The Church and the University".

PRINCIPAL NORTHROP FRYE spoke at Haverford College on April 3, and at Brown University on April 17. He delivered the Inglis Lecture in Secondary Education at Harvard on April 18, addressed a joint meeting of two societies at the University of Nebraska on April 26, and spoke at the symposium on Creativity at the University of Rochester on May 4. Dr. Frye delivered the Fellowship Lecture to the American Association of Psychiatrists in Toronto on May 8. He delivered the Baccalaureate Sermon at Mount Allison University on May 13 and was awarded the degree of Doctor of Letters on May 15. In August Dr. Frye attended the I.A.U.P.E. Conference in Edinburgh, and read a paper and conducted a group on "A Reconsideration of Romanticism" at the English Institute in New York in September.

PROF. P. BUITENHUIS taught for a month this summer at the Institute of American Studies at Macalester College, St. Paul, Minn.

PROFS. KATHLEEN COBURN, K. O. KEE and J. M. ROBSON are on leaves of absence for the 1962–3 session.

PROF. J. S. WOOD has been elected president of the Toronto Chapter of the Alliance Canadienne for 1962–3.

PROF. W. H. TRETHEWEY attended the Congress of the Association Internationale des Etudes Françaises in Paris during July.

PROF. E. G. CLARKE received the Doctorate of Leiden University in July for the defence of a thesis on "Selected Questions of Isho bar Nun on the Pentateuch", to be published in the "Studia Post-Biblica" series by E. J. Brill.

DR. E. J. REVELL, who has joined the Near Eastern Studies staff after being awarded the Ph.D. by Toronto in May, received a Canada Council grant which enabled him to attend the Fourth International Congress of Old Testament Scholars, held in Bonn during August.

PROF. JOHN MACPHERSON read the presidential paper at the thirtieth annual meeting of the Canadian Society of Biblical Studies, which met in Toronto in May.

PROF. GEORGE BOYLS has returned following a year on the staff of Union Theological Seminary, Kingston, Jamaica.

PROF. KINGSLEY JOBLIN is on loan to Chung Chi College, Hong Kong, for the session 1962-3.

Emmanuel

The biennial meeting of the American Association of Theological Schools in the United States and Canada was held at Emmanuel College in June.

PROFESSOR E. C. BLACKMAN attended the meeting of the International Congregational Council at Rotterdam, in July.

PROFESSOR R. DOBBIE spent a Sabbatic leave from January to September at Cambridge and Edinburgh, with a visit to Palestine.

PROFESSOR W. M. KELLY attended the meeting of the North American Theological Commission on Worship held in Chicago in May.

St. Michael's

The President's Committee on Linguistics announces for 1962-3 a series of five lectures on various aspects of Linguistics by PROFS. SAMUEL E. MARTIN (on Oct. 22), MARY R. HAAS, SYDNEY M. LAMB, CHARLES HOCKETT, and DR. CHARLES FERGUSON.

York University

PROF. D. V. VERNEY was the guest of Haverford College, Philadelphia, May 3-5, and addressed a Political Science seminar on "Political Parochialism".

Knox

PRINCIPAL J. S. GLEN was special lecturer at a conference on religious education conducted by the United Presbyterian Church in the United States of America at St. Louis, Mo., on Sept. 28 and 29.

PROFESSOR A. L. FARRIS has taken up his responsibilities, after his sabbatical leave studying the writings of Theodore Beza at the University of Geneva.

PROFESSOR D. W. HAY attended meetings of the Faith and Order Commission of the World Council of Churches in Paris in July, and in August visited Moscow to discuss the relationship of the Russian Orthodox Church with the World Council of Churches. During 1962-3 he will take his sabbatical leave at Edinburgh University. REV. EMLYN DAVIES, former professor of Ecclesiastical History at South Wales Baptist College, Cardiff, will be visiting lecturer in Systematic Theology during the absence of Prof. Hay.

Medicine

PROF. PHILIP GREY has been invited to serve a third term of five years on the Expert Advisory Panel on Antibiotics of the World Health Organization.

PROF. G. A. HENRY attended the meeting of the Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum in Athens, Greece, Sept. 16-18, as a representative of the Department of Oto-Laryngology. A paper was also presented by PROF. GOSTA DOHLMAN on research developed in the department last year along with DR. JOSEPH FARKASHIDY. Prof. Dohlman was a visiting research professor supported by the Medical Research Council.

Law

PROF. ALBERT S. ABEL attended the annual meeting of the Institute of Public Administration of Canada held in Regina Sept. 4-8. Prof. Abel is a member of the executive committee as well as editor of the Journal.

PROF. BORA LASKIN delivered a series of lectures at the University of Luxembourg in August on Canadian constitutional problems.

PROFS. F. E. LABRIE and EDWARD McWHINNEY attended a symposium on the Teaching of Comparative Law conducted by the Parker School of Foreign and Comparative Law at Columbia University, Sept. 12-14.

PROF. EDWARD MCWHINNEY attended the Fifth Congrès Internationale de Droit Comparé, at Hamburg, and presented papers on "Constitutionalism in the New Countries" and "Contemporary Problems of Legal Codification". He also attended the Fiftieth Jubilee Reunion of the International Law Association at Brussels and presented a paper on "Current Soviet Proposals on Juridical Aspects of Peaceful Coexistence" and also spoke on "Contemporary Soviet and Western International Law Theory". Prof. McWhinney was a member of the faculty for the summer session of the Faculté Internationale pour l'Enseignement de Droit Comparé, held in Helsinki, and gave a course of lectures on "le Fédéralisme en Droit Comparé" and another on "le contrôle de la Constitutionnalité des Lois". He later visited the Soviet Union and the Institute of Law of the Academy of Arts and Sciences of the U.S.S.R.

PROF. J. B. MILNER was elected to the Council of the Town Planning Institute of Canada in June. Prof. Milner has been appointed chairman of a Zoning Study, established by the Royal Architectural Institute of Canada, to inquire into the basic purposes and principles of zoning by-laws.

PROF. RICHARD RANK attended the annual meeting of the American Association of Law Libraries in San Francisco, June 30-July 5 and delivered a paper on "Selection of Foreign Law Materials".

PROF. JOHN WILLIS delivered a paper on "Trends in Administrative Law" to the Administrative Law Section of the Canadian Bar Association at its annual meeting in Halifax on Aug. 30.

Applied Science and Engineering

DR. A. P. BERNHART attended the International Council on Water Pollution Research in London, England, Sept. 5-7.

MR. V. P. BORECKY attended a Graphics and Design Conference sponsored by The National Science Foundation at Massachusetts Institute of Technology, Aug. 14-24.

PROF. M. M. DAVIS attended the International Conference on Structural Design of Reflexible Pavements at the University of Michigan, Aug. 20-24.

PROFS. A. C. DAVIDSON, H. L. MACKLIN, C. F. MORRISON, M. W. HUGGINS and MR. W. S. WILSON attended the 75th Anniversary of the Engineering Institute of Canada in Montreal, June 10-15.

PROF. G. KANI presented a paper entitled "The Mechanism of the So-Called Shear Failure" at the 1962 annual general meeting of the Engineering Institute of Canada, June 15.

PROF. J. SCHWAICHOFFER attended the spring meeting of the Society for Experimental Stress Analysis in Dallas, Texas, May 16-18. He also visited the Photoelastic Institute of the Technical University of Munich, Germany, during the summer.

PROFS. H. R. RICE and W. A. M. HEWER attended the First Canadian Symposium on Rock Mechanics at McGill University, Sept. 7-8.

A special course on Measurement Techniques was given by PROF. I. W. SMITH and MR. D. L. ALLEN, for members of O.V.E.A., July 3-20.

PROF. B. M. M. CARPENDALE organized a seminar, chaired by Dr. Kenneth Boulding of the University of Michigan, on "Projects and Priorities in Peace Research" at McGill University, June 10-13, for the Canadian Peace Research Institute.

DR. L. E. JONES visited the Aluminum Company of Canada at Kingston on July 24 concerning committee work for the Canadian Standards Association.

DR. JONES and DR. H. J. LEUTHEUSSER attended the ASCE National Water Resources Engineering Conference at Omaha, May 14-18, and Dr. Leutheusser presented a paper entitled "Resistance to Flow in Rectangular Conduits". They also visited the hydraulics laboratory of the Colorado State University at Fort Collins, as well as at the Iowa Institute of Hydraulic Research at Iowa City. Dr. Leutheusser visited several hydraulics and fluid mechanics laboratories on the European continent and in Great Britain.

PROF. G. R. LORD attended the seventeenth annual meeting of the Soils Conservation Society of America in Washington, Aug. 26-29, and presented a paper, "The Conservation Authority as a Means of Water Management".

PROF. I. W. SMITH attended the conference on Friction and Wear, at Queen's University, June 20-21, the Conference on Engineering Graphics and Design Education held at M.I.T., Aug. 13-24, and the seminar on Optical Comparators held in Springfield, Vermont, Sept. 11-13.

PROF. B. BERNHOLTZ presented a paper entitled "Scheduling the Thermal Subsystem of a Hydrothermal Electric Power System Using the Projected Gradient Method" at the annual meeting of the Canadian Opera-

tional Research Society in Toronto, May 1-3. He has been appointed chairman of the Education Committee of this society for 1962-3. He also attended a symposium on Mathematical Programming at the University of Chicago from June 18-22 where he presented a paper entitled "Mathematical Programming Applied to Short-Term Scheduling of Interconnected Hydrothermal Electric Power Systems".

PROF. D. J. CLOUGH attended Jay W. Forrester's summer course in "Advanced Industrial Dynamics" at M.I.T.

PROF. A. PORTER has been appointed to the Ontario Mathematics Commission as a representative from the U. of T. On April 4 he gave the opening address to the annual meeting of the American Transit Association in New York City. Prof. Porter was elected vice-president of the Canadian Operational Research Society and gave the opening address at the annual meeting on May 1, and he also gave a lecture to the Science Association, N.R.C. on March 16 entitled "The New Horizons in Industrial Engineering".

PROF. D. G. ANDREWS participated in a conference on "Progress in Nuclear Education" at Gatlinburg, Tenn., August 20-22. tures on "Pulp Bleaching" at the University

PROF. W. H. RAPSON presented nine lectures of Maine Summer Institute for the Pulp and Paper Industry, July 23-25.

PROF. J. M. HAM gave the opening address on the "Control Theory and its Application in Canada" at the first national conference on Automatic Control sponsored by the N.R.C. at McGill University, Sept. 4-6. He also presented a paper entitled "Engineering Objectives in Introductory Studies" at the Sixth Sagamore Conference on Electrical Engineering Education on Sept. 8.

PROF. G. SINCLAIR attended the Seventh Regional I.R.E. Convention in Seattle in May. He also attended the U.R.S.I. Symposium on Electromagnetic Theory and Antennas in Copenhagen, June.

PROF. J. L. YEN presented a paper entitled "On Large Non-uniformly Spaced Arrays" at the Copenhagen Symposium of Electromagnetic Theory and Antennas, held during June. This symposium was sponsored by the International Radio Scientific Union. Dr. Yen also visited the major radio astronomical observatories in Europe.

PROF. G. B. CRAIG attended meetings on zirconium research at the University of Florida, June 28-30.

PROFS. L. M. PIDGEON, G. B. CRAIG, S. N. FLENGAS, H. U. ROSS, and W. C. WINEGARD

attended the Conference of Metallurgists, C.I.M.M., at McMaster University, Sept. 4-7.

PROFS. CRAIG and W. C. WINEGARD attended the Canadian Metal Physics Conference at Kingston, Aug. 28-31.

In June DR. G. N. PATTERSON and DR. J. H. DE LEEUW visited the major plasma physics laboratories in Europe. Included in the tour were the Laboratorio Gas Ionizzati Euratom (Rome), Institut für Plasmaphysik (Jülich, West Germany), Royal Institute of Technology (Stockholm), Culham Laboratory of the U.K. Atomic Energy Authority and the Centre d'Etudes Nucleaires de Saclay (Paris). A detailed report on the present position of plasma research in Europe was made at the First Canadian Symposium on Plasma Physics sponsored by the D.R.B., July 16-17.

DR. PATTERSON was elected chairman of the Fourth International Symposium on the Mechanics of Rarefied Gases and Plasmas during recent sessions in Paris. This symposium will bring many of the world's space scientists to the U. of T. in 1964. He also lectured on the Mechanics of Rarefied Gases and Plasmas at the Aeronautical Research Laboratories, Wright-Patterson Air Force Base, Ohio, and at the University of Cincinnati on July 24.

DR. J. H. DE LEEUW attended the Third Rarefied Gas Dynamics Symposium held in Paris from June 26-30; he participated in the Plasma Physics Symposium held at RCA Victor in Montreal July 16-17, and he also attended a meeting of the NRC Associate Committee on Aerodynamics Research in Ottawa on Sept. 10.

PROF. B. ETKIN lectured on "The Entry of Manned Manoeuvrable Spacecraft into Planetary Atmospheres" to the Quebec Branch of the CASI on April 9, and to the Montreal Branch on April 10. He also lectured on "The Aerodynamic Instability of Bodies Towed through the Air at Low Speed" at Laval University, Apr. 9. He chaired a meeting of the Associate Committee on Aerodynamics, N.R.C. in Ottawa on May 8, and visited the Flight Control Laboratory Aeronautical Systems Division USAF, Dayton, Ohio, on May 17-18.

DR. J. B. FRENCH attended the Third International Symposium on Rarefied Gas Dynamics in Paris on June 26-29, where he presented a paper on "The Use of Langmuir Probes in Low Density Plasma Flows" by J. B. French, A. A. Sonin, and J. H. de Leeuw. He also visited laboratories in England and took part in a one-day collo-

quium on Advances in Molecular Beam Techniques in Nice, France, on July 2.

DR. I. I. GLASS visited McGill University on May 22 to discuss problems of mutual interest in high-altitude and high-speed research; he attended the US Air Force Office of Scientific Research Annual Hyper-sonics Contractors' Meeting at MIT, June 6-7, where he gave a talk on the "Gas-dynamics of a Wave-Shaping Hypervelocity Launcher", and on the "Prandtl-Meyer Flow of Dissociated and Ionized Gases". Dr. Glass attended the CASI Annual Meeting, Montreal, June 14-15 as chairman, Astronautics Section, and he also visited Dr. G. V. Bull at McGill University to discuss high-altitude research. He visited the Aeronautical Research Labs, Wright-Patterson Air Force Base, Ohio, July 24, to discuss hypervelocity launcher research. He also gave an illustrated talk on the "UTIA Implosion-Driven Hypervelocity Launcher".

DR. H. S. RIBNER gave a talk on "How Jets Make Noise" to the Propulsion Section, Canadian Aeronautics and Space Institute on Feb. 20, in Ottawa. He attended an informal meeting of Canadian Acousticians at the N.R.C. in Ottawa on Mar. 29 and 30, the first meeting of the newly-formed NRC Associate Committee on Aircraft Noise, of which he is a member.

PROFS. J. G. BRECKENRIDGE and K. B. JACKSON with twenty other professors from across Canada were invited by the R.C.A.F. to accompany the A.O.C. Transport Command, Air Commodore Lane, and some of his staff, on his annual inspection tour of the Northern Stations. The party left Trenton, Ont. on May 19 and visited Winnipeg, Churchill, and Resolute (on Cornwallis Island, Latitude 75 N.), and returned via the North Shore, circling Norman Wells on the Mackenzie River, Whitehorse, Edmonton, and Winnipeg. They were shown much of the Defence and other scientific installations, the Eskimo settlements at Churchill and Resolute, and the Alaska Highway from Whitehorse to Kluane Lake.

Forestry

PROF. D. V. LOVE gave a paper entitled "Some Factors of Significance in the Management of Forest Land in Ontario" on April 13 to the Northwestern Section, Canadian Institute of Forestry, at Port Arthur.

DR. J. L. FARRER attended a Conference on Watershed Management organized by the

U.S. Forest Service, at Laconia, New Hampshire, June 11-15.

PROF. K. A. ARMSON has been appointed for a three-year term to the Forestry Committee of the United States Council on Fertilizer Application. Prof. Armson attended the annual meeting of the Soil Science Society of America, held at Cornell University, Aug. 20-23, and gave a paper on "The Effects of Time of Fertilizer Application on Tree Growth".

PROF. A. S. MITCHELL attended the Logging Field Meeting, Woodlands Section, Canadian Pulp & Paper Association, held at Dryden, Ontario, July 16-19.

Dentistry

The National Recruitment Committee of the Canadian Dental Association will meet in Toronto on Oct. 1 at C.D.A. Headquarters, DEAN R. G. ELLIS will attend the meeting.

The second Canadian Conference on Dental Research will be held in Banff, Oct. 9-11. The Faculty will be represented by several members of the staff of the Division of Dental Research, the majority of whom will present papers.

DEAN R. G. ELLIS will attend the annual meeting of the Canadian Dental School Administrators in Banff, Oct. 8-10.

Under the Extramural Lecture Plan DR. W. J. KERR will be the speaker at a meeting of the Grey-Bruce-Dufferin Dental Society in Owen Sound on Oct. 24, and DR. J. CHALMERS will address the Brockville Dental Society on Oct. 31 in Brockville.

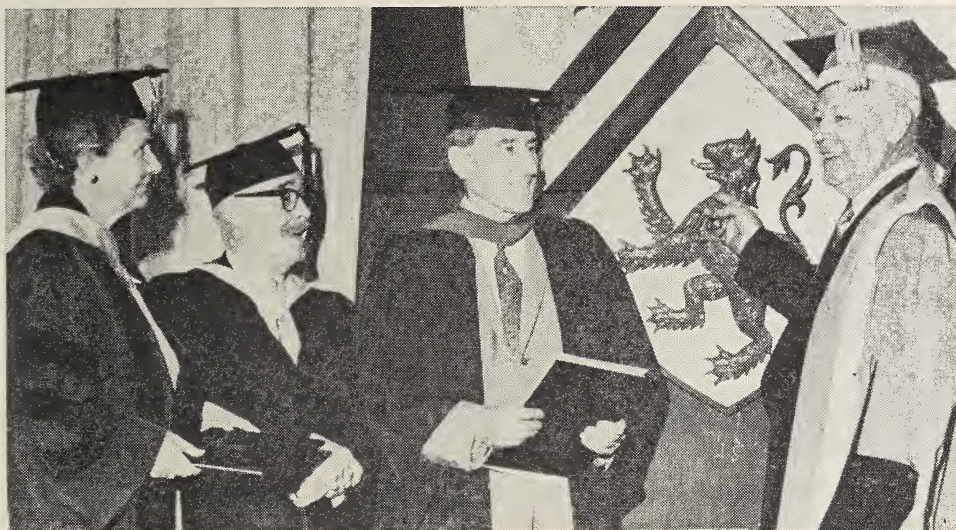
Pharmacy

PROF. G. C. WALKER has been participating in a research project for the Royal Commission on Health Services concerning the pharmacist in pharmaceutical industry. He presented a brief to the Royal Commission on Health Services, on behalf of the Canadian Foundation for the Advancement of Pharmacy. Prof. Walker has been appointed chairman of the Committee on Pharmaceutical Education and Research of the Canadian Foundation for the Advancement of Pharmacy. In April he attended the convention of the American Pharmaceutical Association, in Las Vegas, Nevada.

PROF. F. W. TEARE and MR. R. A. LOCOCK

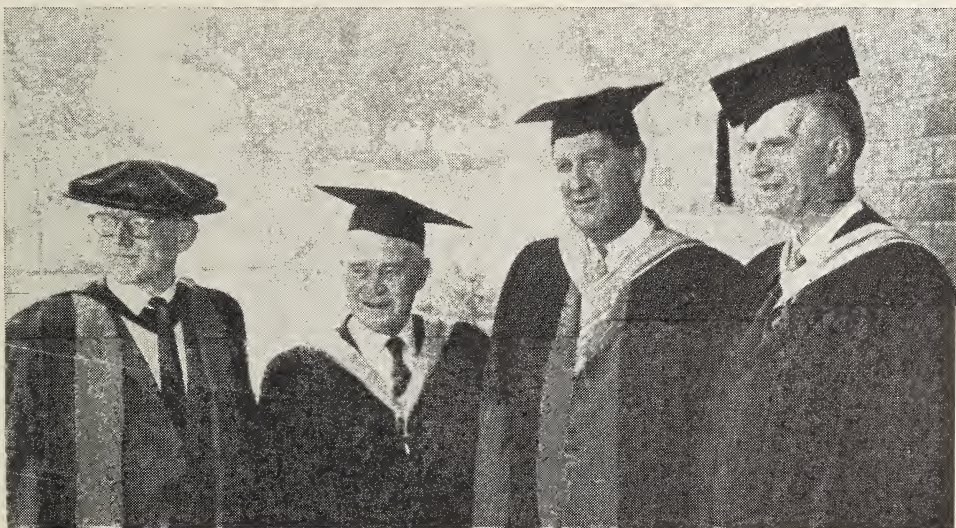
(Continued on page 16)

Honorary Degrees for Members of the Staff



Dr. Helen S. Hogg, Professor of Astronomy, received honorary D.Sc. degree from the University of Waterloo. She is shown

here with other graduands, Dr. Stephen Robinson and Prof. Thomas Baldwin, and Waterloo President J. G. Hagey (right).



Dr. Gordon Patterson (second from right) received an honorary D.Sc. degree at the University of Waterloo's first Engineering

Convocation. With him are Dr. H. R. Lyle Streight and Dr. Otto Holden, and Dean of Engineering Douglas T. Wright (right).

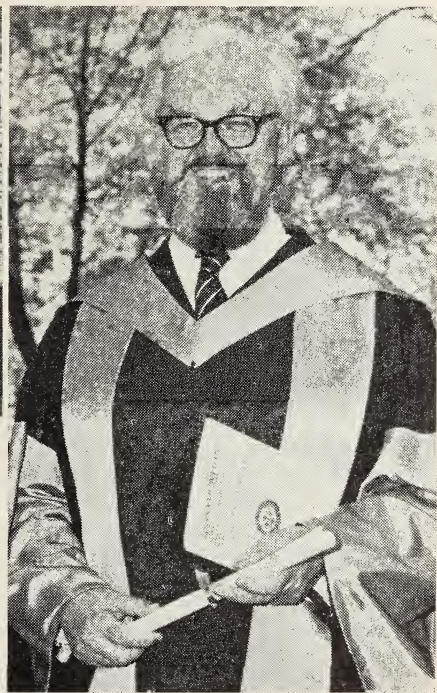


President Eugene G. Bewkes of St. Lawrence University, Canton, N.Y. (left), greets President Bissell, who received honorary LL.D. degree, and gave graduation address.





Colonel D. B. Weldon, M.C. (right), chairman of the Board of Governors, University of Western Ontario, with Dean Vincent Bladen, and Dr. Clare Bice of London Art Museum.



Prof. D. J. McDougall, Department of History (above), who received an honorary LL.D. degree from St. Mary's University, is with the President, The Very Rev. C. J. Fischer. Dr. Northrop Frye, Principal of Victoria College, and Dr. Robertson Davies, Master of Massey College (right), received degrees from Queen's University. At left, Dr. Frye is shown with Senator C. G. Powers, another honorary graduand, and Queen's President J. A. Corry (centre).

(Continued from page 12)

collaborated on a paper "Absorption Spectroscopy of Certain Lobelia Alkaloids" which was presented by PROF. J. G. NAIRN at the Research Conference of the Canadian Conference of Pharmaceutical Faculties, in Vancouver, during August.

PROF. G. R. PATERSON attended the meeting of the Canadian Pharmacy Complex, in Vancouver and the Tenth International Congress of the History of Science, at Cornell University, Ithaca, N.Y., both in August.

PROF. D. R. KENNEDY presented a paper "The Pharmacist as a Consultant" to the Teachers' Conference of the Canadian Conference of Pharmaceutical Faculties, and also addressed the Canadian Society of Hospital Pharmacists on "How to Keep Up-to-Date and be a Good Consultant".

Nursing

PROF. HELEN CARPENTER and PROF. MARION WOODSIDE attended the biennial meeting of the Canadian Nurses' Association held in Vancouver in June.

PROF. JEANETTE WATSON was the lecturer for a refresher course in nursing sponsored by the Nurses' Association of the King Edward VII Memorial Hospital, Bermuda, May 21-25.

PROF. JEAN WILSON presented a paper on "An Introduction to Nursing" at the Canadian Conference of University Schools of Nursing held at McMaster University in June. PROF. NETTIE D. FIDLER chaired one session, and she and PROF. KAY KING contributed to the discussions.

Business

PROF. H. G. CRISPO gave an address on "Conflict and Cooperation—Pro and Con" at the Sixth Annual Industrial Relations Conference of the Niagara District Personnel Association, and one on "The Goldenberg Report" at a panel discussion sponsored by the Labour Relations Sub-section of the Ontario Section of the Canadian Bar Association. On June 11, he addressed the Sixth Annual Conference of the Association of Canadian Schools of Commerce and Business Administration on "The Report of the Royal Commission on Labour-Management Relations in the Construction Industry".

PROF. J. A. SARJEANT participated in the Ford Foundation Seminar "Mathematical Models & Digital Computers in Business"

held at the University of Chicago, June 24-Aug. 17.

PROF. J. A. SAWYER was co-author of a paper on "Linear Programming Estimates of Changes in Input Coefficients" presented at the meetings of the Econometric Society, University of Michigan, Sept. 10. He gave a talk on "Changing Opportunities in International Markets" to the Fourth Annual Foster Marketing Management Seminar on Aug. 10 and read a paper on "The Economic Outlook for 1962 and 1963" to the conciliation board hearing the dispute between the railways and the non-operating employees in Montreal, July 10-11.

Hygiene

DR. A. J. RHODES was one of the two Canadian representatives selected to attend the World Health Organization—Pan American Health Organization Conference on Postgraduate Health Education held in Philadelphia, July 8-17.

DR. DONALD M. MCLEAN visited Melbourne, Australia, during May, and delivered a lecture on "Virology" to a postgraduate course in Internal Medicine at Prince Henry's Hospital. He visited several institutions including the Walter and Eliza Hall Institute of Medical Research, the Royal Children's Hospital, the Victorian State Health Commission and the Commonwealth Serum Laboratories.

Computer Science

On July 1 the Computation Centre officially changed its name to Institute of Computer Science and PROF. C. C. GOTLIEB became the director. On July 13 the new IBM 7090 computer was officially accepted by the Institute and it immediately started on a heavy schedule of operations.

From September 10 to 14 the Institute acted as host to the SHARE Organization of Computer Users. This organization is composed of universities, companies and government agencies using the IBM 704, 709, 7090 and 7040 computers. SHARE XIX, held in Toronto, was the first meeting outside of the United States, and over 800 persons attended.

PROF. C. C. GOTLIEB took part in the Ford Seminar for Faculty Members of Business Schools conducted at the University of Chicago during July. In August he attended the International Congress for Mathematicians at Stockholm, and the Inter-

national Federation for Information Processing Societies Congress in Munich. He represents Canada on the Council of IFIP, and during the congress presented a paper entitled, "The Construction of Class-Teacher Time-Tables". Dr. Gotlieb was recently appointed editor-in-chief of the Communications of the Association for Computing Machinery, whose annual meeting he attended in Syracuse.

Extension

DR. D. C. WILLIAMS visited the Oral French Summer School in St. Pierre, St. Pierre et Miquelon this summer. The School, organized under the Division of University Extension, has completed its third year under the direction of PROF. C. R. PARSONS.

MR. ELMER PHILLIPS attended the annual Liberal Studies Institute for University Administrators, a one-week conference held in the Adirondacks under the sponsorship of Syracuse University.

On Sept. 14 and 15, the division acted as host for the fall meeting of the executive and committees of the Canadian Association of Directors of Extension and Summer Schools.

Royal Ontario Museum

DR. W. E. SWINTON gave a paper on "Archaeopteryx" at the 13th International Ornithological Congress in Ithaca, N.Y. last June. MR. L. L. SNYDER and MR. J. L. BAILLIE also attended the Congress. Mr. Snyder was a member of the International and Local Committees responsible for the organization and success of the meeting.

DR. R. L. PETERSON was elected Vice-President of the American Society of Mammalogists at the annual general meeting in June. In July Dr. Peterson flew to London, where the first three weeks were spent carrying out research in the British Museum (Natural History). This was followed by two weeks on the continent visiting museums and conferring with mammalogists in Paris, Brussels, Antwerp, Copenhagen, Malmo, Sweden and the Zoological Institute, University of Lund. He consulted with the directors of the following Zoological Parks, particularly with respect to captive moose: Antwerp, Belgium, Skanes Djurpark, Hoor, Sweden, and Whipsnade Zoo, England.

DR. E. J. CROSSMAN attended the annual meeting of the American Fisheries Society, Monticello, N.Y. in May. DRs. W. B. SCOTT

and CROSSMAN attended the annual meeting of the American Society of Ichthyologists and Herpetologists in June. Dr. Scott worked for three months at the Fisheries Research Board Biological Station, St. Andrews, N.B., conducting a study of Canadian Atlantic marine fishes.

DR. G. B. WIGGINS has received a grant from the National Science Foundation of the United States for support of research projects on North American Trichoptera, particularly the larval stages, and is to extend over a period of three years. Work carried out under the grant during the summer has included a collecting expedition of five weeks' duration in western Canada, along with work in New Jersey and Ontario. Dr. Wiggins attended the Third Seminar on Biological Problems in Water Pollution sponsored by the U.S. Public Health Service in Cincinnati.

Several delegates attending the International Congress of Limnology were also welcomed to the Department of Entomology and Invertebrate Zoology and the Department of Ichthyology and Herpetology during one of the scheduled tours following the Congress.

Following reports of bones of a fossil mastodon being found near Rondeau Park on Lake Erie, a party from the Department of Vertebrate Palaeontology made a preliminary examination of the site. Part of the skull, two tusks and various parts of the body have been exposed. It is hoped that information on the date and conditions of the animal's death can be obtained. A similar specimen found recently near Chatham gave a radiocarbon dating of about 6,300 years, easily contemporaneous with man in Ontario.

DR. R. R. H. LEMON and MR. J. MONTEITH were engaged in geological field work in an area of southwestern Saskatchewan, southern Alberta and Montana during the summer. Part of this work, concerned with the Upper Cretaceous and Tertiary geology of the region, was in co-operation with a field party from the National Museum in Ottawa.

MR. LEVI STERNBERG, who has served on the Museum staff in the Department of Vertebrate Palaeontology for forty-three years, has retired as associate curator.

The Royal Ontario Museum has undertaken, in collaboration with the British School of Archaeology and the Dominican Ecole Biblique et Archéologique de St. Etienne in Jerusalem, the excavation of the Old City of Jerusalem in Jordan. The

Museum's participation in this project was made possible by the enthusiastic support of our federated Universities—Toronto, Victoria, Trinity, and St. Michael's—and Knox College. Members of the Toronto party for the 1962 season consisted of DR. A. D. TUSHINGHAM and his wife; DR. GEORGE DALES, assistant curator of the Museum's Near Eastern department; PROFESSOR JOHN WEVERS of the University's Department of Near Eastern Studies; and MRS. FAITH STANLEY, of the Museum's registration department.

Between April 3 and May 5 MR. HICKL-SZABO spent a month in Europe, and visited Luxembourg, Echternach, Trier, Paris, Milan and Vienna. His purpose was to gather information relative to two stone sculptures in the Museum's collection, and to seek for possible acquisitions. The most important result of the trip was the purchase of a 12th-century stone capital, possibly Catalanian. Besides this, Mr. Hickl-Szabo collected valuable information for his research on the two stone sculptures, and an article on one of them is already in preparation.

MR. HENRY TRUBNER has been appointed supervisor of the exhibition "Art Treasures of the ROM", to be held in honour of the Museum's Jubilee Year.

MR. TRUBNER and DR. HSIO-YEN SHIH are giving a series of lectures in the Far Eastern galleries of the Royal Ontario Museum this fall as part of the program in honour of the Museum's Jubilee Year.

MRS. BARBARA STEPHEN has left for Japan and Taiwan under the six-month Regional Cultural Study Grant she was awarded earlier in the year by UNESCO.

DR. HSIO-YEN SHIH was appointed visiting professor at Trinity College Summer School, Hartford, Connecticut, during August.

The Press

The following have been published by the Press since the March issue of the *Bulletin*:

Early Archaic Chinese. By W. A. C. H. Dobson. \$15.00

The Town of York, 1793-1815: A Collection of Documents of Early Toronto. Edited by Edith G. Firth. Ontario Series of the Champlain Society V. \$5.00

Geometry of Complex Numbers. By Hans Schwertfeger. \$4.95

The Public Purse: A Study in Canadian Democracy. By Norman Ward. \$6.00

The Employment Forecast Survey. By Douglas G. Hartle. \$3.75

Man and his Destiny in the Great Religions. By S. G. F. Brandon. \$6.50

The British Cabinet. By John P. Mackintosh. \$8.25

A Razor for a Goat: A Discussion of Certain Problems in the History of Witchcraft and Diabolism. By Elliot Rose. \$4.95

The Electrophysiology of Extraocular Muscle. By Goodwin M. Breinin. \$5.00

Design for Learning: Reports submitted to the Joint Committee of the Toronto Board of Education and the University of Toronto. Edited by Northrop Frye. \$3.95

The Life and Times of Confederation, 1864-1867: Politics, Newspapers, and the Union of British North America. By Peter Waite. \$8.50

Studies in Siberian Ethnogenesis. Anthropology of the North, II. Edited by H. N. Michael. \$3.50

The Press and the Public. Edited by D. L. B. Hamlin. \$1.50

Our Living Tradition IV. Edited by R. L. McDougall. \$3.95

The Economics of Subsidising Agriculture. By Gavin McCrone. \$3.50

The Arts as Communication. Edited by D. C. Williams (Based on "The President's Lectures" in the summer session of 1961). \$2.50

A Humane Society. Edited by Stuart E. Rosenberg. \$4.00

Canadian Annual Review for 1961: A Reference Guide and Record. Edited by John T. Saywell. \$15.00

Drama in a World of Science and Three Other Lectures. By Glynne Wickham. \$3.25

Canada in a Changing World Economy. By Harry G. Johnson. \$2.50

Chief Whip: The Political Life and Times of Aretas Akers-Douglas, First Viscount Chilston. By Eric Alexander, 3rd Viscount Chilston. \$7.50

The Gutenberg Galaxy: The Making of Typographic Man. By Marshall McLuhan. \$5.95

Mirror of Minds: Changing Psychological Beliefs in English Poetry. By Geoffrey Bullough. \$5.75

Approaches to History: A Symposium. Edited by H. P. R. Finberg. \$4.25

A Century of Challenge: A History of the Ontario Veterinary College. By F. Eugene Gattinger. \$5.50

From Charity to Social Work in England and the United States. By Kathleen Woodroffe. \$5.00

Systematic Politics: Elementa Politica et

Sociologica. By George E. Gordon Catlin. \$7.50

Representative French Poetry. Edited by Victor Graham. \$2.95

Canadian Geographer: Le Géographe canadien. Vol. VI, Numbers 1 and 2: Spring and Summer, 1962

Canadian Historical Review. Vol. XLIII, Numbers 1 and 2: March and June, 1962

Canadian Journal of Economics and Political Science. Vol. XXVIII, Numbers 2 and 3: May and August, 1962

Canadian Journal of Linguistics. Vol. VII, No. 2: Spring, 1962

Canadian Journal of Theology. Vol. VIII, Numbers 2 and 3: April and July, 1962

Physics in Canada: The Bulletin of the Canadian Association of Physicists. Vol. XVIII, No. 2: Summer, 1962

University of Toronto Quarterly. Vol. XXXI, Numbers 3 and 4: April and July, 1962

Canadian Journal of Psychology. Vol. XVI, Numbers 1 and 2: March and June, 1962

Other Books

Francis Bacon: His Career and His Thought. By Fulton H. Anderson. University of Southern California Press (1962).

New Directions in Psychology. Co-authored by George Mandler. Hold, Rinehart and Winston.

The Social Learning of Deviant Behavior: A Behavioristic Approach to Socialization. R. H. Walters and Albert Bandura.

NEW TELEVISION SERIES

On television this winter, the University will co-operate in the production of five short sets of broadcasts in the Canadian Broadcasting Corporation's "Live and Learn" series. The first six broadcasts, beginning Oct. 6, will deal with various phases of psychiatry. The weekly half-hour productions will be seen first on Saturdays and again the following Sunday, both days at noon over CBLT.

Other series planned for 1962-63 "Live and Learn" are "Saving Old Toronto", by the School of Architecture (four weeks); the University's role abroad, particularly its contribution to developing nations (six weeks); continuing education, to be prepared with the Metropolitan Educational Television Association (seven weeks); and biochemistry, by the department of biochemistry (three weeks).

In the psychiatric series, one major psy-

chiatric disorder will be considered each week. Professor John W. Lovett Doust will be host for the series, which has been planned with the help of several members of the University staff. Patients will be played by members of the department of psychiatry, and members of the psychiatric team—social workers, psychologists, occupational therapists, nurses and psychiatrists—will appear in their professional roles.

WOMEN'S ATHLETICS

The winter program for women graduates and faculty will begin on Monday, Oct. 15.

Activities will include badminton, golf, gymnastics, tennis and swimming.

Further particulars may be secured by calling WA 3-6611, local 770.

APPOINTMENTS AND PROMOTIONS

Arts and Science

E. W. NUFFIELD has been appointed associate dean of the Faculty of Arts and Science, replacing FRANK E. W. WETMORE. Prof. Nuffield has been on the Department of Geological Sciences staff since 1943, and has now been promoted to the rank of professor. He graduated from the University of British Columbia, was a teaching fellow at Stanford University for a year, then came to Toronto for graduate work, earning his Ph.D. in 1944.

This year, Prof. Nuffield was elected a Fellow of the Royal Society of Canada, and given the Society's Senior Award, which will allow him to spend nine months at University College, London, where he will do research on atomic structures of the ore minerals.

RICHARD D. RUSSELL and ALAN W. BREWER have been appointed professors in the Department of Physics. Dr. Russell earned four scholarships and a fellowship during his undergraduate and graduate studies at the University of Toronto, and has since held two post-doctoral fellowships. After study at the University of Chicago, and at Oxford, he taught at Toronto for four years and has been on the University of British Columbia staff since 1958.

Dr. Brewer was born in Montreal and educated at University College, London. He was scientific officer, Meteorological Office, and officer in charge of Meteorological Research Flight, then senior scientist with Elliot Bros. (London) Ltd., in charge of the Scientific Instrument Group. He lectured at Oxford University for nine years, and has latterly been Reader in Meteorology there.

Two visiting professors will come to the Department of Political Economy. ANDRE RAYNAUD is chairman of the Department of Economics and the University of Montreal, and W. G. PHILLIPS is chairman of the department at Assumption University of Windsor.

ZBIGNIEW FOLEJEWSKI has been appointed visiting professor in the Department of Slavic Studies. Born in Poland, and educated at the University of Upsala, Sweden, he is now on leave from the University of Wisconsin, where he has been chairman of the Department of Slavic Languages.

Associate professors have been appointed as follows:

AZIZ AHMAD in the Department of Islamic Studies, educated at Osmania University, specializing in Urdu, Persian and English, and at London University, is regarded as Pakistan's leading Urdu novelist and short-story writer. He has been lecturer, reader, and professor in English at Osmania University. For eight years he was director of publications and films to the Pakistani Government. In 1957 he was seconded as Overseas Lecturer in Urdu and Indian Islam at the School of Oriental and African Studies, London. In addition to gifts as an Islamic scholar, administrator and creative writer, he has a wide command of European languages—English, French, German, Italian and Spanish, and is an expert on Western Islam (Spain and North Africa) and on the languages, history and civilization of Islamic India.

CHANDLER DAVIS and WERNER H. GREUB are associate professors in the Department of Mathematics. Dr. Davis, a graduate of Harvard University, has been on New York University's staff.

Dr. Greub, educated in Heidelberg, Zurich and Innsbruck, comes from Syracuse University.

W. CHARLES HEBDON, Associate Professor of Commerce, is a graduate of the University of Toronto. His business experience includes posts with Canada Packers Ltd., where he was chief accountant, the Royal Bank of Canada, and Reliable Toys Co. Ltd., where he has been treasurer.

D. H. PIMLOTT has joined the Department of Zoology as associate professor to teach a new course on fish and wildlife management. A graduate of the Univer-

sities of New Brunswick and Wisconsin, he has been with the McLaren Pulp & Paper Co. in Quebec, with Canadian Wildlife Service. He later became Wildlife Officer in the province of Newfoundland. Since 1958 he has been with the Ontario Department of Lands and Forests in charge of the Wolf Research Program, on which he will continue to work.

New assistant professors include PIERRE DEMARQUE, born in French Morocco and educated at McGill and the University of Toronto, who has joined the Department of Astronomy. He has taught at Louisiana State University and at the University of Illinois. His major interest is in theoretical astrophysics, particularly in the field of the investigation of the conditions of stellar interiors by electronic computation.

MARCEL ROTHLSBERGER, in the Department of Art and Archaeology, of Swiss nationality, was educated in Berne, Cologne, Paris, Florence, Holland, Pisa and at the Courtauld Institute of Art, University of London. He taught for four years at Yale University, and in 1961 was a visiting member of the Institute of Advanced Study, Princeton.

MRS. M. HEIMBURGER, KARL R. MATTOX and J. H. SPARLING have been appointed assistant professors in the Department of Botany. Mrs. Heimbürger, graduate of the Universities of Saskatchewan and Wisconsin, where she obtained her Ph.D. in 1942, has been doing research under a National Research Council Grant.

Dr. Mattox, born in Cincinnati, educated in Miami and Texas, comes from a post at the University of Texas.

Prof. Sparling comes from University College, London, from which he has a B.Sc. degree in Special Botany, and where he has been working towards his Ph.D. degree.

Four assistant professors have been appointed in the Department of Chemistry. DR. REMIGION GERMANO BARRADAS, born in Macao, educated at the University of Liverpool, was forensic and analytical chemist in the Hong Kong Government Laboratory for three years. He left the Department of Inspection Services Branch, Department of National Defence, Ottawa, to undertake graduate research at the University of Ottawa, and obtained his Ph.D. *summa cum laude* in 1960. He has been research associate in Physical Chemistry at Royal Military College, Kingston, for the past two years.

MALCOLM BERSOHN's education at Harvard and Columbia University was inter-

rupted by service in the U.S. armed forces in the Pacific area. Since 1960 he has been chemist with the California Research Corporation, working in the Molecular Spectroscopy Group.

GEORGE BURNS, born in Moscow, and educated at Columbia and Princeton Universities, has been research engineer of General Electric Company. For the past two years he has been a postdoctoral fellow in the Department of Physical Chemistry at the University of Cambridge.

JOHN E. DOVE, graduated from Oxford where he specialized in Physical Chemistry. He has carried out research at the University of Göttingen in Germany and at Atomic Energy Research Establishment at Harwell, England. For the past two years he has held a Commonwealth Fund Fellowship at Harvard University.

In the Department of Mathematics, MADHAV P. HEBLE, MARIA J. WONENBURGER and MICHAEL A. STEPHENS have been appointed assistant professors. Dr. Heble, educated in Bombay and at the University of Indiana, has been on the Syracuse University staff.

Dr. Wonenburger, educated in Madrid, and at Yale, has been on the staff of Queen's University.

Dr. Stephens, with a B.Sc. from Bristol, M.A. from Harvard, and Ph.D. from Toronto, has been a part-time instructor on the staff.

In the Department of Physics, J. S. M. HARVEY and R. L. ARMSTRONG have been made assistant professors. Prof. Harvey, a native of Toronto, was educated at Toronto and Oxford, where he worked on his doctorate last year. His current research is the investigation of the hyperfine structure of light atoms.

Dr. Armstrong, born in Hespeler, earned eight scholarships and awards and two graduate fellowships in his student days at University of Toronto. Last year he was at Clarendon Laboratory, Oxford, where he held two scholarships.

J. W. L. WINDER, assistant professor of economics, educated at Toronto and at the University of Chicago, has been with the Institute for Economic Research at Queen's University, has had business experience with A. V. Roe Canada Ltd., and the *Toronto Daily Star*. For the past four years, he has been on Ontario Agricultural College staff.

MRS. M. DICKIE, assistant professor in the Department of Zoology, is a University of Toronto graduate who will do research

on the effects of insulin on isolated tissues.

Promotions in the Faculty are as follows:

To the rank of professor:

G. S. VICKERS (Art and Archaeology); MISS D. F. FORWARD and K. H. ROTHFELS (Botany); A. G. BROOKS, M. W. LISTER and J. C. POLANYI (Chemistry); D. P. KERR and J. SPELT (Geography); A. F. PILLOW and P. G. ROONEY (Mathematics); G. D. SCOTT, J. M. ANDERSON and R. W. MCKAY (Physics); S. G. HENNESSEY, G. MANDLER (Psychology); and C. E. ATWOOD and F. P. IDE (Zoology).

To associate professorships:

MISS RUTH J. NORTHCOTT (Astronomy); M. J. DIGNAM, A. G. HARRISON, and J. A. PAGE (Chemistry); P. A. PEACH (Geological Sciences); J. C. CAIRNS, K. W. K. MCNAUGHT, H. I. NELSON and J. T. SAYWELL (History); J. A. MOLINARO (Italian and Hispanic Studies); P. ABRAHAMSON, B. BRAINERD, W. H. GREUB, and R. WORMLEIGHTON (Mathematics); R. M. FARQUHAR, F. S. GRANT and N. R. F. STEENBERG (Physics); J. E. SANDS, H. A. J. GREEN, D. G. HARTLE, P. J. GIFFEN, and E. P. NEUFELD (Political Economy); E. TULVING (Psychology); and G. M. CLARK, W. G. FRIEND and F. H. RIGLER (Zoology).

To assistant professorships:

W. H. VITZTHUM (Art and Archaeology); M. UEDA (East Asiatic Studies); A. TAYYEB (Geography); G. E. COOK and E. R. ROSE (History); M. E. MARMURA (Islamic Studies); J. GULSOY (Italian & Hispanic Studies); J. R. VANSTONE (Mathematics); D. P. GAUTHIER (Philosophy); G. F. WEST and D. YORK (Physics); L. M. DRUMMOND, A. KRUGER, H. I. MACDONALD, M. H. WATKINS and A. M. WATSON (Political Economy); G. G. BECHTEL and R. G. GIBBONS (Psychology).

University College

PRESIDENT CLAUDE BISSELL has been appointed professor in the Department of English.

In the same department, ERNEST SIRLUCK, M.B.E., has been appointed professor. Dr. Sirluck has also been made associate dean in the School of Graduate Studies, replacing C. ROGER MYERS in the latter post.

Dr. Sirluck comes from the University of Chicago, whose staff he joined in 1947. He has received two major awards for his work on Milton: a Guggenheim fellowship in 1954-55, and an American Council of Learned Societies fellowship in 1958-59,

both of which he used to carry on research in the British Museum.

His other special fields of interest are the Puritan Revolution, and the literature and thought of the late 16th and 17th centuries, particularly with respect to Spenser and Shakespeare.

Prof. Sirluck edited Volume Two of the *Complete Prose Works of John Milton* published by Yale University Press, and is author of a number of scholarly and critical articles published in American and British journals.

During the war he was with the Royal Regiment of Canada and the Canadian Intelligence Corps, retiring with the rank of major. He was senior intelligence officer for the Fourth Canadian Armoured Division, and served in France, Belgium, Holland and Germany throughout the campaign.

A graduate of the University of Manitoba, Dr. Sirluck received his M.A. and his Ph.D., in 1948, from this university, where he lectured during 1946-47.

He is president of the Renaissance English Text Society, past chairman of two of the sections of the Modern Language Association of America, and past president of the Newberry Library Renaissance Conference.

CLIFFORD LEECH, who holds the chair of English Literature in the University of Durham, comes to the Department of English as a visiting professor. He is one of the foremost of British scholars and critics in the field of Shakespearean drama, is the author of books on Webster and Ford, and one, about to be published, on Fletcher, as well as *Shakespeares Tragedies and Other Studies in Seventeenth-century Drama*, and is general editor of the *Revels Plays*.

PETER L. HEYWORTH, graduate of Oxford, and specialist in the literature of the later middle ages, has been appointed assistant professor in the Department of English. After teaching in the United States, he returned to Oxford for further study.

In the Department of Classics C. J. HERINGTON will be visiting associate professor. Graduate of Oxford, he has taught in the Universities of Manchester and Exeter, and at Smith College. At present he is chiefly engaged in a study of the Greek tragedian Aeschylus, and is about to publish a translation of the *Prometheus Bound*.

F. PRUNER, Professor of French Languages and Literature in Dijon, France, and graduate of the University of Paris, will be visiting professor in the Department of French.

In the same department, P. R. ROBERT

is coming from the University of British Columbia to become associate professor. He is a graduate of British Columbia, with M.A. and Ph.D. degrees from the University of California, Berkeley. He came to Canada from France after six years' service in the Free French Navy and Merchant Marine. He has taught at the University of Alberta and at Berkeley.

Promotions in University College have gone to:

W. J. N. RUDD, R. M. H. SHEPHERD and D. F. S. THOMSON (Classics); H. A. MCPHERSON, F. W. WATT (English), all to the rank of associate professor;

R. A. GREENE, P. L. HEYWORTH and A. PRITCHARD (English); and E. F. KAYE (French) to assistant professorships.

Victoria

PROF. R. K. ARNOLD has been named chairman of the Department of German, replacing PROF. J. A. Surerus, who has been appointed professor-emeritus. Prof. Surerus will be a special lecturer for the session 1962-63.

Newly appointed associate professor in the Department of English is D. J. GREENE.

The following have been appointed assistant professors: D. G. MOWATT (German), DENTON FOX (English), PIERRE SPIRET and H. R. SECOR (French), and W. E. McLEOD (Classics).

Promotions announced are:

C. C. LOVE (English) and JOHN MCPHERSON (Near Eastern Studies) to the rank of professor;

F. E. SPARSHOTT (Ethics) to associate professor;

R. H. FARQUHARSON (German) and W. A. DALE (Classics) to assistant professor.

FREDERICK C. STOKES has been appointed bursar of Victoria University, succeeding WILFRED C. JAMES who retired on June 30.

KEITH DINSMORE has been appointed controller of the University and J. B. SCOTT is the new superintendent of buildings and grounds.

New College

FRANK E. W. WETMORE has been appointed principal of the University's first new residential college. Dr. Wetmore will continue his teaching and research in the Department of Chemistry, but has given

up his position of associate dean of the Faculty of Arts and Science.

A graduate of the University of New Brunswick, he joined the Chemistry staff here in 1933 as a post-graduate student. He was appointed assistant dean of the Faculty when the office was created in 1957, and a year later, associate dean.

W. S. WILSON, who retired this year as assistant dean and secretary of the Faculty of Applied Science and Engineering, has been appointed registrar of New College.

York University

The following appointments as chairmen of departments have been made:

EDGAR W. MCINNIS (History), JOHN R. SEELEY (Sociology), HANS CAROL (Geography), DENNIS C. RUSSELL (Mathematics), and M. H. APPLEY (Psychology).

Profs. McInnis and Seeley have been members of the faculty.

Dr. Carol was educated and has taught at Zurich University. Since 1958 he has been on the staff of the Graduate School of Geography at Clark University, Worcester, Mass.

Dr. Russell, educated in Sheffield and London, has taught at the University of London and University College of North Staffordshire. He has been at Mount Allison University since 1960.

Dr. Appley held posts as professor and chairman of the Department of Psychology at Connecticut College from 1952 to 1960, and at Southern Illinois University since then. He has also taught at Wesleyan University, and the Universities of Connecticut, Denver and Michigan.

Acting chairman have been appointed as follows: C. DAVID FOWLE (Biology), LESTER J. PRONGER (French), and HENRY S. HARRIS (Philosophy).

Profs. Verney and Fowle have been on the York staff. Dr. Harris has been associate professor of Philosophy at the University of Illinois, where he earned his Ph.D. degree. He is also a graduate of St. Edmund Hall, Oxford.

R. R. EARL, dean emeritus of the Faculty of Arts and Science of Queen's University, has been appointed dean of the faculty, and GEORGE TATHAN has been named dean of students.

NEIL M. MORRISON has been appointed dean of the Joseph E. Atkinson Evening College. He has been director of a group of French and English social scientists who

undertook audience and opinion research for the Canadian Broadcasting Corporation. Previously he was director of Talks and Public Affairs Broadcasts for the C.B.C. for ten years.

H. K. GIRLING, associate professor of English, educated at Oxford, has been senior lecturer in English at the University of Witwatersrand, Johannesburg.

G. V. DOXEY has been appointed associate professor of Economics. He has been economic adviser on African Affairs in the British Foreign Office, and lecturer in international economics at the University of London.

HAROLD KAPLAN, assistant professor of Political Science, comes from Columbia University, where he was assistant administrative officer in the Metropolitan Region Program, Department of Public Law and Government.

WALTER B. SIMON has been made associate professor of Social Science. A graduate of the University of Washington and Columbia University, he has taught at these institutions and at City College of New York, Dartmouth College and Hofstra College, Long Island.

SHEILA EASTMAN, assistant professor of Economics has taught at the Ryerson Institute of Technology, the University of Toronto, and at McMaster.

ALEX L. MURRAY, assistant professor of History, educated at McMaster, London and Pennsylvania Universities, and comes from the University of Alberta staff.

Medicine

HAROLD E. JOHNS has been appointed head of the Department of Medical Biophysics, replacing A. W. HAM, who remains on the staff as professor in the department and in Anatomy. Dr. Johns came to Toronto from Saskatchewan in 1956, and has been professor of Physics and of Medical Biophysics.

MALCOLM M. R. HALL has been appointed head of the Department of Radiology, and promoted to professor rank, and has also become radiologist-in-chief to the Toronto Hospital.

He replaces Dr. A. C. SINGLETON, who has retired from both posts, held since 1949, and who will devote himself to private practice.

Dr. Hall, a Toronto graduate, interned in Pittsburgh, and did postgraduate studies at the Toronto General Hospital. He joined

the University and hospital staffs in 1932.

Miss NANCY JOY is the new director of the Department of Art as Applied to Medicine, and an associate professor. She replaces MARIA T. WISHART, who has retired.

Miss Joy, an honour graduate of the Ontario College of Art, was a special student here in Anatomy, Histology, Pathology, Embryology and Neurology, and at the same time lectured at Ontario College of Art and demonstrated Anatomy to Occupational Therapy students at the University. She then studied under, and became assistant to, the professor of Medical Illustration, University of Illinois.

The first Visiting Professor in Mental Retardation in the Department of Psychiatry is DR. L. T. HILLIARD, who came from England in May for a six-month period. He is an internationally renowned specialist in the field of mental deficiency, and has held posts with the Foundation Hospital, London, the Institute of Psychiatry, the Maudsley Hospital, London, and the London School of Economics. He is a member of the World Health Organization expert committee on mental health.

Newly appointed assistant professors are R. C. BAKER and D. F. PARSONS in Medical Biophysics, and Miss N. SIMPSON in Pharmacology.

R. E. RENAUD has been appointed research associate in Rehabilitation Medicine.

Promotions to the rank of professor include D. N. HENDERSON and R. B. MEIKLEJOHN (Obstetrics and Gynaecology); T. F. NICHOLSON (Pathological Chemistry); JAMES CAMPBELL and A. M. RAPPAPORT (Physiology).

To associate professorships: G. E. CONNELL and G. H. DIXON (Biochemistry); J. E. TILL and G. F. WHITMORE (Medical Biophysics); Miss G. C. MALONEY and G. L. WATT (Obstetrics and Gyn.).

To assistant professorships: R. H. MEREDITH (Anaesthesia); K. O. MCCUAIG, J. S. McGRAIL (half-time) and A. C. STRICKLER (Anatomy); T. C. JEWELL, J. R. McARTHUR, E. S. MACDONALD, J. R. NORRIS, C. B. SHIER and M. C. WATSON (Obstetrics and Gynaecology); J. M. M. DARTE (Paediatrics); D. G. BAKER (half-time) (Physiology); R. B. HOLMES (Radiology); D. K. MACDONALD (Ophthalmology); H. H. CAMPBELL, W. J. HORSEY, J. A. KEY, W. K. LINDSAY, T. P. MORLEY, R. B. SALTER and D. R. WILSON (Surgery).

To associates: E. J. TROW (Medicine); W. H. ALLEMANG, J. W. ROGERS, D. J. VAN WYCK and R. H. WESLEY (Obstetrics

and Gynaecology); LOIS A. LLOYD (Ophthalmology); G. E. FEE (Otolaryngology); D. M. McLEAN (Paediatrics); G. S. BIRD, H. E. MEENA and C. A. F. MOES (Radiology); C. B. BAKER, W. A. BROWN, P. O. CRASSWELLER, D. J. CURRIE, O. V. GRAY, W. R. HARRIS, A. W. HARRISON, R. O. HEIMBECKER, R. D. JEFFS, W. K. KERR, W. M. LOUGHEED, W. N. LOTTO, L. J. MAHONEY, J. S. SIMPSON, W. J. SPENCE (Surgery).

Law

R. C. B. RISK has been appointed assistant professor. He has returned from Harvard where he has been doing postgraduate work on a \$5,000 Harvard fellowship. He is a Toronto graduate in Arts, and studied Law here, obtaining his LL.B. with honours in 1959, when he won the Lady Reading Club Prize in Administrative Law, as well as the Dean's Key awarded for outstanding extra-curricular activities of an academic nature. While here he played on the Varsity football team for six years. Prof. Risk was called to the Ontario bar in 1961. One of his chief interests is the field of Legal History—a field which has been totally neglected by Canadian law schools.

B. GREEN has been promoted to the rank of associate professor.

Forestry

R. W. KENNETH, newly appointed assistant professor, was educated at the State University of New York, University of British Columbia and Yale School of Forestry, where he obtained his Ph.D. this year. He previously taught at the University of British Columbia.

Applied Science and Engineering

G. BERNHOLTZ has been appointed associate professor in the Department of Industrial Engineering. He is a graduate of the U. of T. and of the California Institute of Technology. He lectured at the University of Connecticut, then went in 1953 to the Hydro-Electric Power Commission of Ontario, where he has been Mathematician, Operations Research Group.

J. W. SMITH has been appointed assistant professor in the Department of Chemical

Engineering. Educated at the University of British Columbia and Imperial College, London, where he was an Athlone Fellow, he has been on the University of British Columbia staff.

Promotions in the Faculty to associate professorships went to: S. SANDLER and O. TRASS (Chemical Engineering); A. C. DAVIDSON and F. A. DeLORY (Civil Engineering); J. L. YEN (Electrical Engineering); A. B. ALLAN, F. P. J. RIMROTT, and W. A. WALLACE (Mechanical Engineering); and S. N. FLENGAS (Metallurgical Engineering).

To assistant professorships: J. B. FRENCH (Aerophysics), S. M. UZUMERI (Civil Engineering), S. DMITREVSKY and W. JANISCHEWSKYJ (Electrical Engineering); and C. H. MILLER (Mechanical Engineering).

Hygiene

W. HARDING LE RICHE, professor and head of the Department of Epidemiology and Biometrics, and F. BURNS ROTH, professor and head of the Department of Hospital Administration, whose appointments were previously announced, have now assumed their duties.

E. R. LANGFORD has been appointed associate professor in the Department of Public Health. Dr. Langford earned his M.D. degree at Queen's University, and his D.Ph. in the School of Hygiene at Toronto. He has been medical officer of health for the District of Kenora.

K. F. CLUTE, who is director of Field Studies in the Department of Public Health, has been appointed associate professor of Medical Care.

K. R. ROZEE has been appointed assistant professor of Virology in the Department of Microbiology. He is a graduate of Dalhousie and Toronto Universities, with M.Sc. Ph.D. degrees and a Dip. Bac. and comes from Dalhousie University.

Extension

GEORGE H. BOYES has been appointed assistant director in charge of the General Course (Extension). Mr. Boyes did both his undergraduate and graduate work at this university, completing his M.A. in 1950. He comes from the University of Manitoba, where he held the rank of associate professor in the Department of Extension, and Adult Education.

Pharmacy

G. R. DUNCAN has been appointed assistant professor of Pharmaceutical Chemistry. He earned bachelor's and master's degrees at Toronto, and has just finished doctoral research at the Institute for Organic Chemistry at the University of Basel, Switzerland.

Nursing

HELEN M. CARPENTER has been appointed director of the School of Nursing, and promoted to the rank of professor. She replaces NETTIE D. FIDLER, who has retired.

Miss Carpenter, who joined the staff in 1948, was educated at the University of British Columbia, Toronto General Hospital, the University of Toronto, Johns Hopkins School of Hygiene and Public Health, and Columbia University.

She has worked at an Ontario Red Cross outpost hospital, with the Victorian Order of Nurses in Hamilton and Toronto, and the British Columbia Department of Health, and as director of Public Health at the East York-Leaside Health Unit. In 1959 she won the first Canadian Red Cross Fellowship for graduate study in nursing.

Now president of the Canadian Nurses Association, Professor Carpenter is also a member of the World Health Organization expert advisory panel on nursing, and of

the nursing education committee of the International Council of Nurses.

Miss Fidler directed the School from 1952. She joined the staff in 1936, after holding posts at the Toronto General Hospital, with the Toronto Psychiatric Hospital, as director of nursing, and as superintendent of nurses at the Ontario Hospital, Whitby.

Miss H. A. BENNETT has been promoted to the rank of associate professor, and Miss M. C. WOODSIDE to assistant professor.

Social Work

Promotions in the School have gone to R. R. MEDHURST and J. C. SPENCER, to the rank of professor; A. J. O. FARINA, to associate professor; and B. SCHLESINGER, to assistant professor.

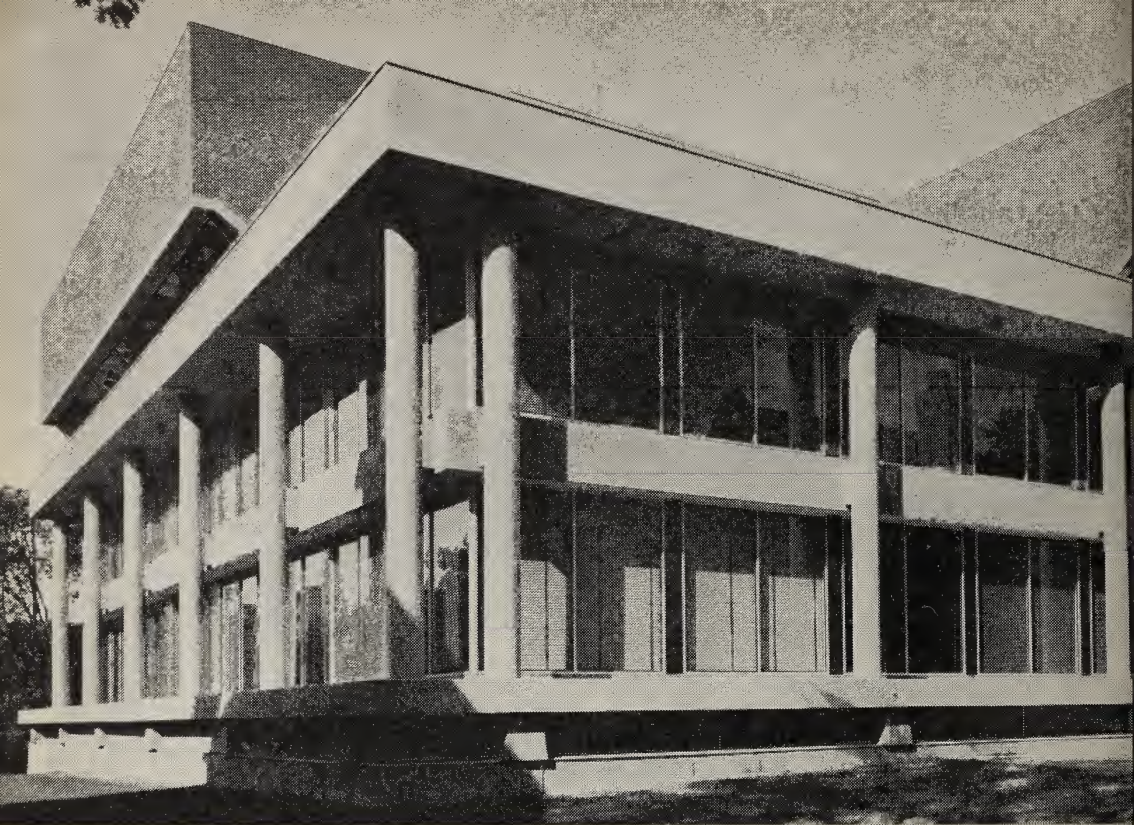
Dentistry

D. G. WOODSIDE has been promoted to professor rank; A. M. HUNT and W. D. MACKAY to associate professors; and G. A. MORGAN to assistant professor.

Music

Promotion of T. KENINS to the rank of assistant professor has been made.

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THE EDWARD JOHNSON BUILDING, FOR THE FACULTY OF MUSIC, *above*, IS NOW IN USE.
MASSEY COLLEGE, *below*, WILL BE FINISHED NEXT AUTUMN.

